



KIA MOTORS

GROUP
Engine

MODEL
09MY Rio / Rio5 (JB)

NUMBER
063

DATE
February 2010

TECHNICAL SERVICE BULLETIN

SUBJECT: SERVICE ACTION: ECM UPGRADE FOR MULTIPLE DTC'S LISTED
P0300, P0128, P0140, P0442, P0451, P0461 (SA032)

This bulletin provides the procedure to upgrade the Engine Control Module (ECM) of some 2009 RIO/RIO5 (JB) 1.6L vehicles produced Jul. 17, 2008 to Jul. 11, 2009 (MAP vehicles only) which may experience a rough idle during initial cold start-up or illuminate the MIL with DTC's below. The ECM update addresses engine misfire that may occur in the first minute of idle after cold start with temperature ranging from 30-70° F and other indicated upgrades reference. If the misfire continues beyond this period refer to service manual diagnostic procedure for engine mechanical and engine control hardware issues. For diagnostic information that a reflash has been done to a vehicle you are working on, verify the DM is updated in this TSB.

- **P0300: Random/multiple Cylinder Misfire Detected** (Rough idle state)
- **P0128: Thermostat Motor Malfunction**
- **P0140: O2 Sensor Circuit Malfunction Detected (Bank 1 Sensor 1 stored in memory)**
- **P0442: Evaporative Emission System - Leak detected (Small Leak)**
- **P0451: Evaporative Emission System Pressure Sensor/Switch Performance**
- **P0461: Fuel Level Sensor "A" Circuit Range/Performance**

ENG063 / SA032
CLOSED



Global
Diagnostic
System (GDS)

File Under: Engine

- Circulate To: General Manager Service Manager Parts Manager
 Service Advisor(s) Technician(s) Body Shop Manager Fleet Repair

**SUBJECT: SERVICE ACTION: ECM UPGRADE FOR MULTIPLE DTC'S LISTED
P0300, P0128, P0140, P0442, P0451, P0461 (SA032)**

MANUAL MODE ECU UPGRADE PASSWORDS*

MENU	PASSWORD	COMMUNICATION TYPE
JB 1.6 MT : 39120-26BG1 - 09MY	0261	CAN-Line
JB 1.6 AT : 39120-26BG6 - 09MY	0266	

*** Do NOT perform Manual Mode PCM upgrade unless Auto Mode fails.**

*** Do Not Force the Calibration into the Incorrect P/N PCM. This is subject to warranty chargeback.**

7. When the GDS tool reports that the ECU upgrade has been successfully completed, click OK, turn OFF the ignition key, and wait at least 10 seconds before attempting to start the engine.
8. Check for Diagnostic Trouble Codes using the GDS and erase any DTCs stored.

AFFECTED PRODUCTION RANGE:

2009 Rio / Rio5 with 1.6L engine produced from Jul. 17, 2008 to Jul. 11, 2009.

WARRANTY CLAIM INFORMATION:

Claim Type	Causal P/N	Qty	N Code	C Code	Repair Description	Labor Op Code	Time	Labor Op Info	Qty
V	39120 26BG1	0	N69	C40	(SA032) ECM Upgrade – CAN-line	090068R0	0.2 M/H	N/A	0

***NOTICE**

VIN Inquiry data for this repair is provided for tracking purposes only. Kia retailers should reference SA032 when accessing the WebDCS system.